

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P259085

Luminaire Tested: **14CZ-LD5-35-SQP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259085  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-35-SQP-UNV-L93050-W2A1-U-3000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1774.0 lumens  
Efficiency: N/A  
Efficacy: 63.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

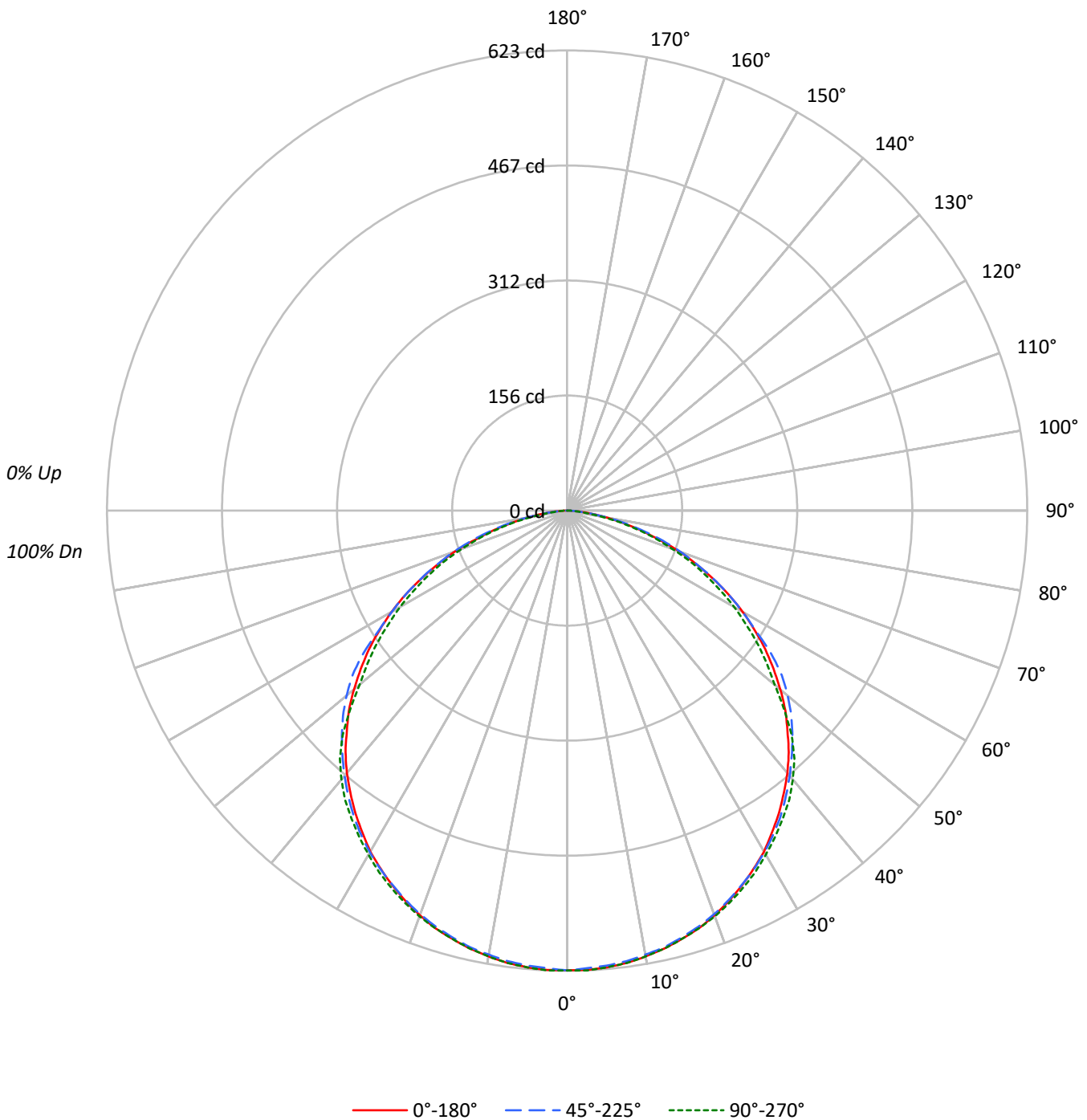
Input Watts (W): 28.086  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76		82	78	74		79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64		73	67	63		70	65	62	59
4	83	71	62	55	81	70	61	55	67	60	54		65	59	54		63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41		52	46	41		51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36		48	41	36		46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32		44	37	32		43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26		37	31	26		36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1675	1675	1675
5°	1677	1670	1677
10°	1675	1668	1675
15°	1672	1667	1672
20°	1669	1666	1674
25°	1663	1661	1673
30°	1656	1660	1671
35°	1642	1656	1672
40°	1630	1646	1670
45°	1605	1642	1635
50°	1577	1633	1534
55°	1536	1582	1477
60°	1478	1475	1407
65°	1385	1393	1316
70°	1271	1286	1191
75°	1069	1119	1018
80°	848	866	717
85°	556	482	408



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.9	3.3
10°-20°	169.5	9.6
20°-30°	258.7	14.6
30°-40°	315.7	17.8
40°-50°	330.1	18.6
50°-60°	292.3	16.5
60°-70°	215.2	12.1
70°-80°	111.4	6.3
80°-90°	22.2	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	487.1	27.5
0°-40°	802.8	45.3
0°-60°	1425.2	80.3
0°-90°	1774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1774.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	622	622	622	622	622	
5°	621	621	618	621	621	59
15°	600	600	598	601	600	170
25°	560	560	559	563	564	258
35°	500	501	504	509	509	313
45°	422	425	431	435	430	326
55°	328	334	337	320	315	292
65°	218	231	219	210	207	215
75°	103	110	108	101	98	110
85°	18	19	16	14	13	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	622.5	622.5	622.5	622.5	622.5
2.5°	622.5	622.5	620.1	622.5	623.1
5°	620.7	620.7	618.3	620.7	620.7
7.5°	617.7	617.1	615.3	617.7	617.7
10°	612.9	612.9	610.5	613.5	612.9
12.5°	607.5	606.9	605.7	608.1	607.5
15°	600.3	600.3	598.5	600.9	600.3
17.5°	593.1	592.5	590.7	593.1	593.1
20°	582.9	582.3	581.7	584.1	584.7
22.5°	572.1	571.5	570.9	574.5	574.5
25°	560.0	560.0	559.4	563.0	563.6
27.5°	546.8	546.8	547.4	552.2	551.6
30°	533.0	533.0	534.2	537.8	537.8
32.5°	516.2	517.4	519.8	524.0	524.0
35°	499.9	501.1	504.2	509.0	509.0
37.5°	481.9	483.7	486.7	492.7	493.9
40°	463.9	465.1	468.7	475.3	475.3
42.5°	444.1	445.3	450.1	456.7	455.5
45°	421.8	425.4	431.4	435.0	429.6
47.5°	400.8	403.2	411.6	407.4	398.4
50°	376.8	381.6	390.0	375.0	366.5
52.5°	352.1	357.5	366.5	345.5	340.7
55°	327.5	334.1	337.1	319.7	314.9
57.5°	301.0	308.3	302.3	292.0	287.2
60°	274.6	283.0	274.0	264.4	261.4
62.5°	247.0	256.6	246.4	238.0	233.7
65°	217.5	230.7	218.7	210.3	206.7
67.5°	188.7	202.5	189.9	182.7	180.3
70°	161.6	169.5	163.4	156.2	151.4
72.5°	129.2	137.0	135.8	128.0	125.0
75°	102.8	110.0	107.6	101.0	97.9
77.5°	76.3	84.1	81.7	73.9	72.7
80°	54.7	60.1	55.9	48.7	46.3
82.5°	34.3	38.5	33.0	27.6	26.4
85°	18.0	19.2	15.6	13.8	13.2
87.5°	6.0	6.6	6.6	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)